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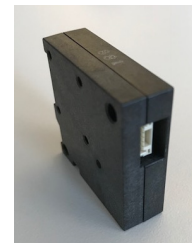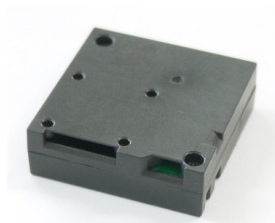
SN-GCJA5 Particulate Matter Laser Sensor

- On board Laser Diode provides Particulate Matter detection for indoor air quality
  (±10%, from low to high concentrations ~ 1,000 µgm3)
- Output mass-density value of PM1.0, Pm2.5 and PM10 (µgm3)
- Minimum detectable particle: 0.3µm
- Very small footprint: 37×37×12mm
- Weight: 13g
- Extended lifetime optimized by S/W control
- Optimized air pathway design to minimize dust accumulation
- High S/N

NEW

■ SN-GCJA5

Power supply voltage	5.0V (±10%)
Consumption current	Below 100mA
Minimum detectable particle	0.3µm
Indicatable range	(UART) $0µg/m^3 \sim 2{,}000µg/m^3$ (I^2C) $0µg/m^3 \sim x{,}xxxµg/m^3$
Maximum consistency error	±10% $35µg/m^3 <、 <1{,}000µg/m^3$
Response time	1sec (Time to first reading 8sec)
External interface	I^2C & UART
Size	W37×D37×H12mm

■ Typical Sources of Particulate Matter:

- ✓ Dust, fly ash, soot, smoke, aerosols, fumes, mists and condensing vapors
- ✓ Combustion engines (diesel and petrol)
- ✓ Solid-fuel (coal burning, heavy oil and biomass)
- ✓ Cooking / smoking of plant matter, Fireplaces, Furnaces
- ✓ Construction materials
- ✓ Building, demolition, mining, manufacture of cement and smelting
- ✓ Pavement erosion by road traffic /abrasion of brakes and tires.

- ✓ Agriculture (source of ammonium).
- ✓ Nitrogen oxides (emitted by traffic and industrial processes)
- ✓ Sulfur dioxide (from the combustion of sulfur-containing fuels).
- ✓ Power-plant boilers to ship boilers, central steam-heat boilers
- ✓ Waste incineration / local field burning
- ✓ House and forest fires
- ✓ Etc…

Products and product specifications shown are subject to change without notice.
Please contact your local Panasonic Technical Representative for the most up to date information.   2019 PIDSA/SBDD